



U.S. Customs and
Border Protection

CBP Entry Exit Transformation Office

November 2018

DEFINING THE VISION | BIOMETRIC ENTRY EXIT CONCEPT

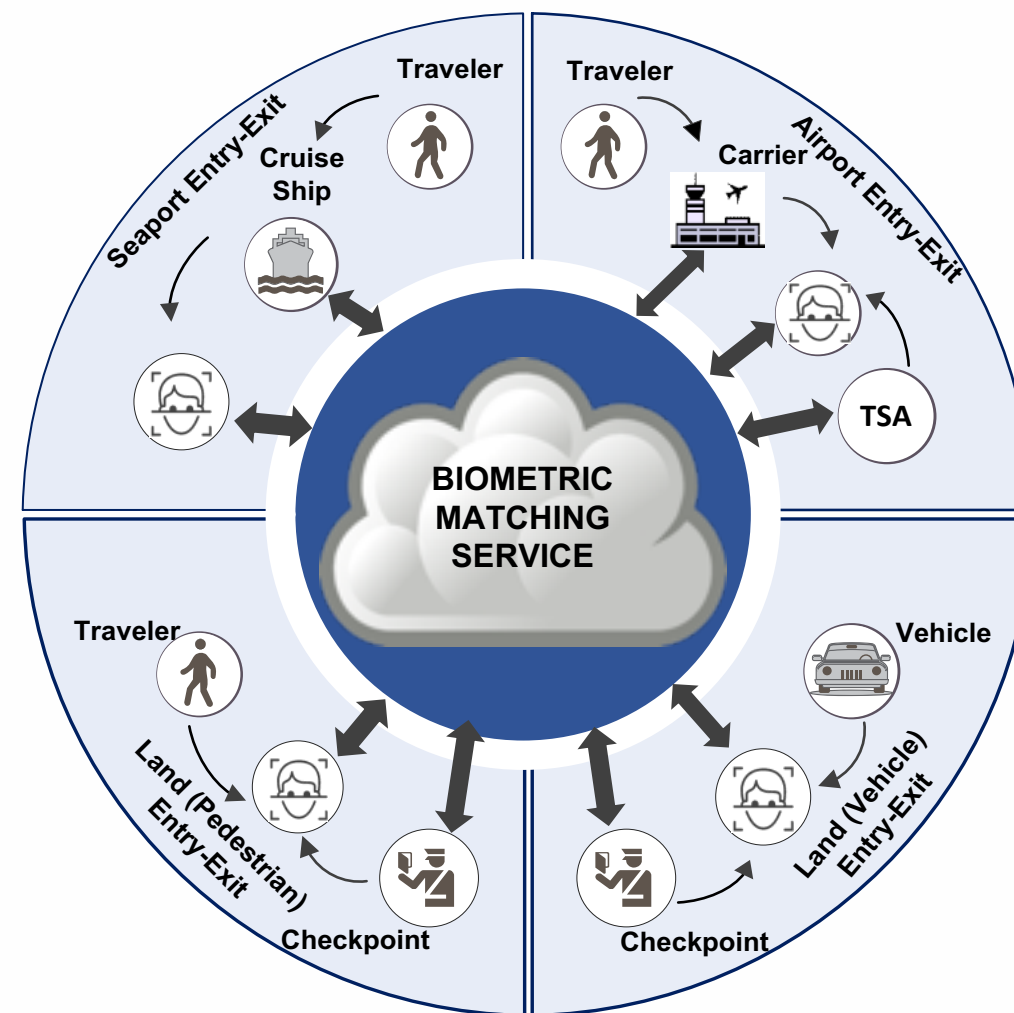


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Through a biometric matching service and the use of biometric data CBP will transform travel processing by:

- Retrieving all associated traveler images from DHS holdings and segregating them into smaller, more manageable data sets (i.e., by flight, by cruise)
- Fusing biometric and biographic information enabling the biometric to be the key to verifying traveler identity

The biometric matching service is a device agnostic, secure, cloud based technical infrastructure to support advanced identity verification.



HIGHLIGHTS | ACCOMPLISHMENTS

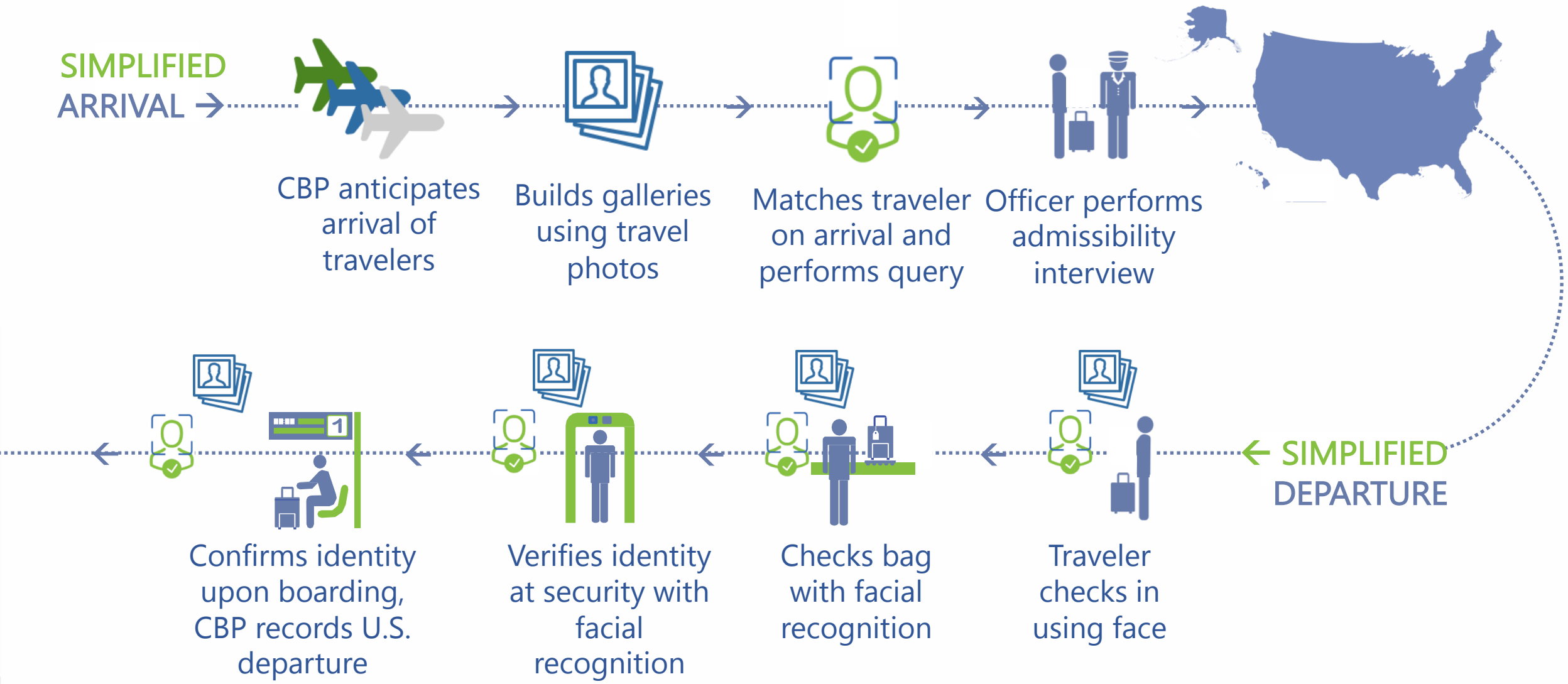


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- Facial matching service is **scaled and ready** to support nationwide biometric exit deployment
- Successfully deployed air exit demonstrations at 8 airports, expanding to additional locations
- Secured 15 entry/exit partnerships with airports and airlines
- Aggressively pursuing expansion of partnerships with additional partners
- Deployed Entry to ATL, MIA, JFK, MCO, IAH, SAN, SJC, LAX, FLL, IAD, LAS, Aruba, Abu Dhabi, Shannon, and Dublin
- Actively planning integration with TSA Secure Flight for TSA Phase III in 2019
- Expanding with Sea Partners, Royal Caribbean and Norwegian Cruise Lines
- Land Third Country National solution deployed to 4 sites
- 2018 Land pilots planned for pedestrian and vehicles



SIMPLIFIED TRAVEL | HOW IT WORKS



Using facial recognition, CBP will confirm identity of all travelers and create a streamlined travel

CBP'S INVESTMENT | A FACIAL MATCHING SERVICE



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WHY IT WORKS

- Uses existing traveler biometrics
- No new data requirements
- Matches one to few utilizing cloud infrastructure
- Token-less processing
- Integrates into existing airport infrastructure
- Extends to land and sea environments
- Trusted source for identity verification

The screenshot displays the CBP Facial Matching Service interface. At the top, it shows the U.S. Customs and Border Protection logo and the text "OFFICER NAME". Below this, there are tabs for "AIR FLIGHT 295", "LAND", and "SEA". The "AIR FLIGHT 295" tab is selected. The interface shows a progress indicator "92%" and "Passengers Processed 306 / 331". It also displays "Flight ATL to NLT", "Today 12/12/14", and "Time 12:30 PM". Below this, there is a table with columns: "Match", "Passenger Name", "Date of Birth", "Document", and "Status". The table lists six passengers with their biometric match status.

Match	Passenger Name	Date of Birth	Document	Status
	Smith, James	01/08/1992	P TR3456201 JP	Match
	Sally, Jane	09/12/1980	P TR1010201 JP	Match
	Mark, Robert	04/05/1959	P 534564981 US	Match
	Tanaka, Yuri	03/27/1979	P 568049423 US	No Match
	Arntson, Keenan Lanae	09/02/1991	P TR2935948 JP	Match
	Matsuyama, Asuka	06/15/1983	P 759403592 US	Match

BIOMETRIC PROCESS | OPERATIONAL PERFORMANCE



EXIT

6,000

flights processed

981,000

participating
passengers

ENTRY

38,000

flights processed

3.6 million

participating
passengers

PRECLEARANCE

9,400

flights processed





1.3 million

participating
passengers







STAKEHOLDER EXPANSION | 2018 Progress Report





APR - JUN

-  Initiated demonstration projects with new partners
-  Expanded entry to Abu Dhabi, Shannon preclearance locations
-  Secured commitments to expand with **Orlando, Delta,, Houston and San Jose**
-  Continued planning with TSA for TVS/Secure Flight Integration

JUL - SEPT

-  Executed demonstration projects with new partners
-  Expand entry and exit deployments
-  Secured commitments with **Dulles, Tampa, San Francisco, Los Angeles, Austin, Dallas Ft. Worth**
-  Performed Phase II TSA Pilot Monitor progress

SEPT - DEC

-  Prioritize stakeholders for '19, continue demonstrations
-  Monitor stakeholder commitments
-  Continue working with TSA on Integration
-  Secured commitment with new partners **Las Vegas, BWI, Salt Lake City, Ontario** and working finalize with other participating

Airline Partnership:



Our stakeholders are ready for seamless travel, and CBP is enabling the ability to move forward

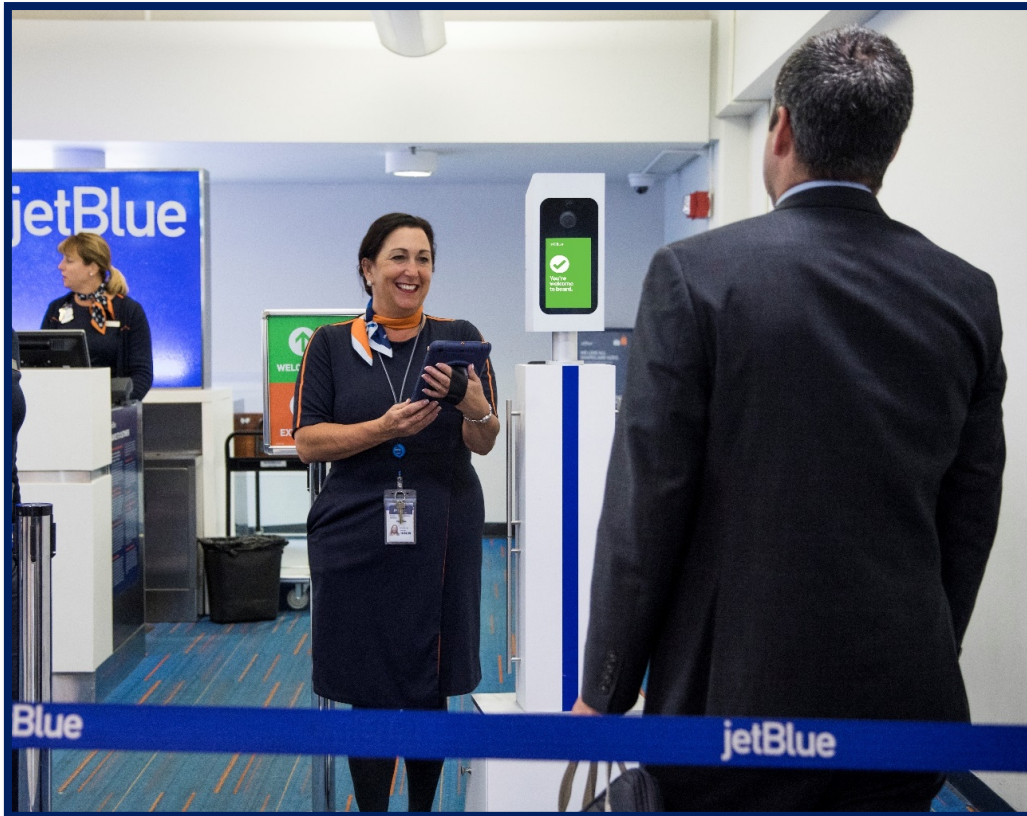


SIMPLIFIED TRAVEL | PARTNER SOLUTIONS IN ACTION



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JetBlue – Paperless Boarding at BOS



Los Angeles – E-gates



Airlines integrate facial biometrics and use CBP's agnostic matching service to board aircraft



SIMPLIFIED TRAVEL | BENEFITS



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By Partnering with CBP, our stakeholders will see benefits from entry to exit utilizing our matching service including:

- **Faster Flight Clearance Times on Arrival:**
 - CBP has measured an average of **11.8 minute faster** Flight Clearance Times across sites that have deployed facial recognition processing on Entry
- **Faster Boarding Times:**
 - Lufthansa reported boarding **350 passengers** onto an A380 in **20 minutes** at LAX
 - British Airways reports **significantly faster boarding times** vs. standard process at MCO
- **Enhanced Customer Experience:**
 - JetBlue reports biometric boarding **meters passengers better**, resulting in less waiting time in the jet way and passengers just walk to their seats
- **Better use of CBP Staffing:**
 - Elimination of fingerprinting and passport swipes increases throughput and allows CBP officers to **focus on interview and inspection**

Partners achieve significant operational improvements through the implementation of biometrics for entry/exit



PARTNERSHIP WITH TSA | PROGRESS AND PLANS



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TSA is evaluating the use of facial recognition utilizing CBP's facial matching service. The integration of facial recognition for identity verification will enhance security and better utilize resources, while moving towards a frictionless travel experience.

- **Phase I:** October 2017 at JFK Terminal 7. Examined the viability of utilizing facial recognition to verify the identity of travelers at the TSA checkpoint.
- **Phase II:** August 2018 at Los Angeles International Airport's Tom Bradley International Terminal.
- **Phase III:** 2019 - Full integration between CBP and TSA



Integration between CBP and TSA will expand the seamless travel experience



SIMPLIFIED LAND TRAVEL | PROGRESS AND PLANS



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Vehicle At Speed

- Capture of private vehicle occupants' faces at both entry and exit

Third Country National Plan

- BE-Mobile for Pulse and Surge Operations and Mobile App for TCN self-report



Pedestrian Technical Demonstration:

- Test Facial Recognition technology at entry and exit

Engagement with Foreign Partners

- Biographic data exchange



CBP has a multi-pronged strategy to integrate biometrics on the land border

SIMPLIFIED TRAVEL | COMMITMENT TO PRIVACY



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- Transparency Efforts:
 - Briefing Sessions with Privacy Advocates and Stakeholders
 - August 2017 in DC, January 2018 in California
 - DHS Data Privacy and Integrity Advisory Committee Meeting
 - September 2017, May 2018, and July 2018
- Notification to the Public:
 - Privacy Impact Assessments Completed for CBP and Airline Led Projects
 - Online Content at CBP.GOV
 - Fact Sheets
 - Frequently Asked Questions
 - Signage at Demonstration Sites and Gate Announcements
 - US Citizens not wishing to have a photo taken can request an alternative ID verification process
- Facial Images:
 - *Retention Period*: No more than two weeks for confirmation of travelers' identities, evaluation of the technology, assurance of accuracy of the algorithms, and system audits.



CBP commitment to transparency builds public trust while enhancing security and facilitate travel.



SIMPLIFIED TRAVEL | THANK YOU



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